



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name		
PO040146	MCM001-VU	1	1	2% 10 Net 30	1277K32	Cap				100	6/15/2018	100		S080839	Stock	6/13/2018	\$ 0.10 / Ea	0		\$10.37	McMaster-Carr Supply Co.		
		2			1277K126								100		S080840	Stock	6/13/2018	\$ 0.14 / Ea	0		\$14.17	McMaster-Carr Supply Co.	
		3			C10-9-6	Latch Return Spring					30		30		S080841	Stock	6/13/2018	\$ 1.12 / Ea	0		\$33.60	McMaster-Carr Supply Co.	
		4			8695K715	Polyurethane Rod 3/4 DIA. 80A (HARD)					16		16		S080842	Stock	6/13/2018	\$ 13.94 / ft	0		\$222.96	McMaster-Carr Supply Co.	
		5			MDLNR4.000W	M-Delrin Round Bar, White					4		4		S080843	Stock	6/13/2018	\$ 79.29 / ft	0		\$317.16	McMaster-Carr Supply Co.	
		6			90985A129	Quick-Release Pin					10			10		S080844	Stock	6/13/2018	\$ 20.37 / Ea	0		\$203.70	McMaster-Carr Supply Co.
		7			65115K41	Handle 1-1/2"					8			8		S080845	Stock	6/13/2018	\$ 8.15 / Ea	0		\$65.20	McMaster-Carr Supply Co.
		8			98381A478	Dowel Pin Rnd 1/8" X 1 1/2"					25			25		S080846	Stock	6/13/2018	\$ 0.34 / Ea	0		\$8.48	McMaster-Carr Supply Co.
Total:											293										\$875.64		

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO040146

Order Placed By
Chantal Lavoie

McMaster-Carr Number
4730764-01

Page 1 of 1

06/11/2018

Line	Product	Ordered	Shipped
1	1277K32 Plastic Round Caps, 1 1/16"-12 Thread Size, Packs of 100	1 Pack	1
2	1277K126 Plastic Round Caps, 1-5/16"-12 Thread Size, Packs of 100	1 Pack	1
3	9654K193 Steel Extension Spring, Loop Ends, Zinc-Plated, Tempered, 4.79" Extended Length, Packs of 3	10 Packs	10
6	90985A129 Knob-Grip Push-Button Quick-Release Pin, 1/4" Diameter, 1-3/4" Usable Length	10 Each	10
7	65115K41 Aluminum Handle with 1-1/2" Diameter Machinable Solid Hub	8 Each	8
8	98381A478 Dowel Pin, Alloy Steel, 1/8" Diameter, 1-1/2" Long, Packs of 25	1 Pack	1



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
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Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO040146

Order Placed By
Chantal Lavoie

McMaster-Carr Number
4730764-02

Page 1 of 1

06/11/2018

Line	Product	Ordered	Shipped
4	8695K715 Abrasion-Resistant Polyurethane Rubber Rod, 48" Long, 3/4" Diameter, 80A Durometer	4 Each	4
5	8572K36 White Delrin Acetal Resin Rod, 4" Diameter, 4' Length	4 Feet	4

Abrasion-Resistant Polyurethane Rubber Rod 48" Long, 3/4" Diameter

\$55.74 Each
8695K715



Shape	Rod
Material	Polyurethane
Texture	Smooth
Diameter	3/4"
Diameter Tolerance	-0.025" to +0.025"
Length	48"
Length Tolerance	-0.25" to +0.25"
For Use Outdoors	Yes
Temperature Range	-20° to 200° F
Tensile Strength	6,350 psi
Color	Black
Durometer	80A (Hard)
Durometer Tolerance	-5 to +5
RoHS	Compliant

Stronger than natural rubber, these polyurethane rods combine the shock-absorbing qualities of rubber with the tear resistance of plastic. Use them to seal narrow spaces such as channels.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO040146

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO040146

PO Date: 6/8/18

Due Date: 6/12/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

JUN 11 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

REVISED

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	1277K32	100/pk	Cap	Firmed	6/12/18	100 Ea	0 Ea 100x	100 Ea	\$0.1037/Ea	\$10.37
2	1277K126	100/pk	Cap	Firmed	6/12/18	100 Ea	0 Ea 100x	100 Ea	\$0.1417/Ea	\$14.17
3	C10-9-6	9654K193 3/pk	Latch Return Spring	Firmed	6/12/18	30 Ea	0 Ea 30x	30 Ea	\$1.12/Ea	\$33.60
Line Item Note 10 pk of 3 pcs										
4	8695K715	4'/ lenght	Polyurethane Rod 3/4 DIA. 80A (HARD)	Firmed	6/12/18	16 ft	0 ft 16ft	16 ft	\$13.935/ft	\$222.96
Line Item Note 4 pcs of 4 ft										
5	MDELINR4.000W	8572K36	M-Delrin Round Bar, White	Firmed	6/12/18	4 ft	0 ft 4ft	4 ft	\$19.8225/ft	\$79.29
6	90985A129		Quick-Release Pin	Firmed	6/12/18	10 Ea	0 Ea 10x	10 Ea	\$20.37/Ea	\$203.70
7	65115K41		Handle 1-1/2"	Firmed	6/12/18	8 Ea	0 Ea 8x	8 Ea	\$8.15/Ea	\$65.20
8	98381A478	25/pk	Dowel Pin Rnd 1/8" X 1 1/2"	Firmed	6/12/18	25 Ea	0 Ea 25x	25 Ea	\$0.3392/Ea	\$8.48
Grand Total:										\$637.77

Order Notes

rec'd 6/18/18/13

[Signature]

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/11/18 2:12 PM dart.lavoie.chantal

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4 Delrin 4.000w

PO / BATCH NO.: 040146 / 5080843

DATE: JUN 13 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4
 QUANTITY INSPECTED: 4
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000
 THICKNESS RECEIVED: 4.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	white Delrin Acetal Resin Rod 4"
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	PO # 040146 Part # 8572K36
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____	
DATE: <u>9-89 JUN 13 2018</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 8695K715
 DATE: JUN 13 2018

PO / BATCH NO.: 040146/5080842

MATERIAL CERT REC'D: Y-05
 QUANTITY RECEIVED: 16
 QUANTITY INSPECTED: 16
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>34 Rod Polyurethane</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>Mat # PO 04196</u> <u>Part # 8695K715</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 JUN 13 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

McMASTER-CARR®

White Delrin® Acetal Resin Rod 4" Diameter



In stock
\$79.29 per ft.
8572K36

Material	Delrin® Acetal Plastic
Cross Section Shape	Round
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Diameter	4"
Diameter	0" to
Tolerance	+0.250"
Tolerance Rating	Oversized
Length	1 ft., 2 ft., 3 ft., 4 ft., 5 ft.
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ft.-lbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good

Specifications Met	ASTM D6100, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil
Water Absorption	0.30%
Coefficient of Thermal Expansion	8.5×10^{-5} in./in./°F
RoHS	Compliant

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL DELRIN II 150E OR ACETRON GP ACETAL

PART NUMBER: M-DELRIN-R1.DDD X DIA COLOR CODE

WHERE D.DDD = DIAMETER IN INCHES
X = COLOR CODE, "W" = WHITE, OMITTED = BLACK
EG. 1" BLACK ROUND BAR = M-DELRIN-R1.000
2" WHITE ROUND BAR = M-DELRIN-R2.000W

RELEASED

2018 MAR 27 4
EJ 18-657

APPROVED

B	UPDATE DRAWING TO CURRENT STANDARDS. ADD MATERIAL COLOR "WHITE". ADD REASON CIR-110. ADD "ACETRON GP ACETAL" AS OPTION (REV. A1).	SAD	17.10.19
A	NEW ISSUE	DS	01.11.12
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD		
DRAWN	SAD		
CHECKED	SAD		
MFG. APPR.	RF		
APPROVED	RA		
DE APPR.	HS		
DATE	CP		
17.10.19	DELIN ROUND BAR		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
REV. B SHEET 1 OF 1 SCALE NTS			
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